

LIS008152062B2

(12) United States Patent

Perrier et al.

(54) PORTABLE INFORMATION TERMINAL MOUNTABLE ON SHOPPING CART AND REMOVABLE MEMORY DEVICE USABLE WITH SAME

(75) Inventors: **R. Sylvain Perrier**, Newmarket (CA); **Jeremy List**, Newmarket (CA); **Mark**

Edey, Ottawa (CA)

(73) Assignee: Mercatus Technologies Inc., Toronto

(CA)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 433 days.

(21) Appl. No.: 11/411,900

(22) Filed: Apr. 27, 2006

(65) **Prior Publication Data**

US 2006/0264120 A1 Nov. 23, 2006

Related U.S. Application Data

- (60) Provisional application No. 60/675,849, filed on Apr. 29, 2005.
- (51) Int. Cl. *G06K 15/00* (2006.01)
- (52) **U.S. Cl.** **235/383**; 361/679.31; 361/679.39; 361/679.58; 361/759

(56) References Cited

U.S. PATENT DOCUMENTS

2,759,281 A	8/1956	Akers, Jr.
3,251,543 A	5/1966	Bush
3,710,108 A	1/1973	Haarhaus et al.
3,836,755 A	9/1974	Ehrat et al.

(10) Patent No.: US 8,152,062 B2

(45) **Date of Patent:**

Apr. 10, 2012

4,071,740 A	1/1978 Gogulski	
4,139,149 A	2/1979 Crepeau et al.	
4,334,278 A	6/1982 Marmon	
4,373,133 A	2/1983 Clyne et al.	
4,500,880 A	2/1985 Gomersall et al	
4,528,638 A	7/1985 Hatta et al.	
	(Continued)	

FOREIGN PATENT DOCUMENTS

CA 1300235 5/1992 (Continued)

OTHER PUBLICATIONS

Cuesol; "Enhancing the Customer Experience"; www.cuesol.com; 2005.

(Continued)

Primary Examiner — Daniel Hess Assistant Examiner — Rafferty Kelly (74) Attorney, Agent, or Firm — Osha•Liang LLP

(57) ABSTRACT

A system made up of a portable information terminal mountable on a shopping cart for providing product and advertising information while the cart is moved inside a store and an external memory device connectable to the portable information terminal, the external memory device including a memory housing, a non-volatile memory storing data in the memory housing, and a first electrical connector projecting from the housing for allowing a processor to access the stored data; the portable terminal including a terminal housing including a display, a processor in the terminal housing for causing the display to display product information and advertisements, and a second electrical connector inside the housing complementary to the first electrical connector for connecting an external memory device to the processor, the terminal housing including a passage providing access to the second electrical connector from outside the terminal housing and at least one door recessed in the passage shiftable from a first position blocking the passage to a second position by inserting the external memory device into the passage.

16 Claims, 12 Drawing Sheets

